

**PECCO, INC.**  
**PERDUE ENVIRONMENTAL CONTRACTING COMPANY**  
**PROVIDERS OF CLEAN-UP SERVICES FOR HAZARDOUS MATERIALS SPILLS**  
**250 ETTER DRIVE NICHOLASVILLE, KENTUCKY 40356**  
**• OFFICE: (859) 887-5508 • FAX: (859) 887-5610**

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May 15, 2013

KENTUCKY ENVIRONMENTAL RESPONSE TEAM  
300 Fair Oaks Lane  
Frankfort, Kentucky 40601  
Attn: David Leo

**RE: INCIDENT NUMBER 2358709, MARS CODE N506**  
**EMERGENCY RESPONSE SERVICE OF 3-11-13**  
**SPILL/RELEASE OF CALCIUM NITRATE/NITRIC ACID SOLUTION**  
**AULICK CHEMICAL SOLUTIONS, INC.**  
**145 EISENHOWER COURT**  
**NICHOLASVILLE, JESSAMINE COUNTY, KENTUCKY**  
**GEOGRAPHIC COORDINATES: 37° 56' 16.74" N, -84° 32' 13.79" W**

Mr. Leo:

This report is intended to summarize and document the activities of the emergency response services at the subject site as provided by PECCO, INC., aka PERDUE ENVIRONMENTAL CONTRACTING COMPANY, INC. The purpose of the report is to satisfy informational requirements of the regulatory community, responding agencies and applicable insurance providers. This report may not be reproduced, except in full, without the written approval of PECCO, INC.

On Monday evening, March 11, 2013, PECCO, INC. was engaged by the responsible party to respond to a hazardous materials release at the AULICK CHEMICAL SOLUTIONS facility. Approximately 2,400 gallons of a nitric acid solution were estimated to have been released. Please refer to the Material Safety Data Sheet (MSDS) located in *Appendix D* of this report. The facility is located at 145 Eisenhower Court, in northern Nicholasville, Jessamine County, Kentucky, approximately 4.41 miles northeast of the center of town. Please refer to Figures 1 and 2 of *Appendix A* at the end of this report.

PECCO, INC., an environmental emergency response, mitigation and cleanup contractor located nearby in Nicholasville, Kentucky, was retained to furnish the appropriate environmental emergency services, cleanup, and disposal of the special waste. Management and administration were provided by the KENTUCKY ENVIRONMENTAL RESPONSE TEAM.

Reportedly, a flange failure on a nitric acid storage tank at the AULICK CHEMICAL SOLUTIONS facility allowed product to be released. Approximately 2,400 gallons of product were released into the concrete containment surrounding two of three large vertical tanks inside the facility. The product, reacting with the carbon steel components within the containment, produced a large cloud of yellow fumes that spread out and moved generally east from the facility. All of the liquid product released from the tank remained within the containment. Please refer to Figure 3 of *Appendix A* at the end of this report.

The immediate area surrounding the facility was evacuated. First responders from the BLUEGRASS ENVIRONMENTAL RESPONSE TEAM (BERT) donned Level A PPE and made entrance to inspect the facility and assess the chemical hazards. PECCO responders donned Level A PPE and began setting up equipment to mitigate the release. Using a stainless steel tanker, PECCO responders vacuumed the released product from the containment into the tanker. The containment was flushed with approximately 1,000 gallons of water to dilute and weaken the acid to reduce the reaction with the concrete containment.

As PECCO responders and emergency personnel left the immediate area of the facility, they were decontaminated in a decontamination tent provided by the NICHOLASVILLE FIRE DEPARTMENT. The wastewater from the decontamination process was collected with a vac-truck and vacuumed into the onboard storage tank of a PECCO vac-truck for subsequent transportation and disposal. The Level A PPE suits were collected in screw-top, 95 gallon, poly drums for subsequent transportation and disposal.

On 3-12-13, PECCO responders returned to the site. Air monitoring was provided by the USEPA to ensure safe working conditions throughout the continued cleanup process. PECCO responders donned Level C PPE with full faced respirators. Using the stainless steel tanker, the water used to weaken the acid was removed from the containment. Using warm water and a degreaser, PECCO responders pressure washed the interior of the containment. The wastewater was collected by the tanker. PECCO responders pumped the product and wastewater from the stainless steel tanker into several 275 gallon poly totes which were left on site until disposal could be obtained.

PECCO responders set up the decontamination tent on a wash pad at the PECCO facility. Using warm water and a degreaser, PECCO responders pressure washed the interior of the decontamination tent. Using soft bristled brushes, the interior of the decontamination tent was scrubbed. Using a vac-truck, PECCO responders collected the wastewater in the onboard storage tank of the vac-truck. The tent was returned to the NICHOLASVILLE FIRE DEPARTMENT.

The mixture of decontamination water and wastewater from pressure washing the decontamination tent was transported to a permitted recycling facility, VALICOR's facility in Cincinnati, Ohio. A total of 570 gallons of the mixture was transported and dispositioned. A copy of the manifest documenting this disposal activity is included in *Appendix C* of this report.

The mixture of product and water that was placed in the 275 gallon totes was transported to a permitted hazardous transportation, storage, and disposal facility (TSDF), EQ's Detroit facility in Detroit, Michigan. A total of 3,575 gallons of the mixture was transported and dispositioned. A copy of the manifest documenting this disposal activity is located in *Appendix C* of this report.

The solid waste, Level A and C PPE, was transported to a permitted treatment, storage and disposal facility (TSDF), ADVANCED DISPOSAL's Blue Ridge Landfill located in Irvine, Kentucky. A total of eighteen hundredths (0.18) tons of the mixture was transported and dispositioned. A copy of the manifest and the scale ticket documenting this disposal activity are included in *Appendix C* of this report.

Photographs relevant to the incident and the cleanup and/or restoration actions are included in *Appendix B* of this report. The emergency response and remedial action described in the preceding are typically deemed appropriate and demonstrative of prudent and responsible environmental practice. It is presumed that no further action is required for this incident. Should there be any comments, questions, or concerns regarding this incident report, feel free to contact PECCO's office at 859.887.5508.





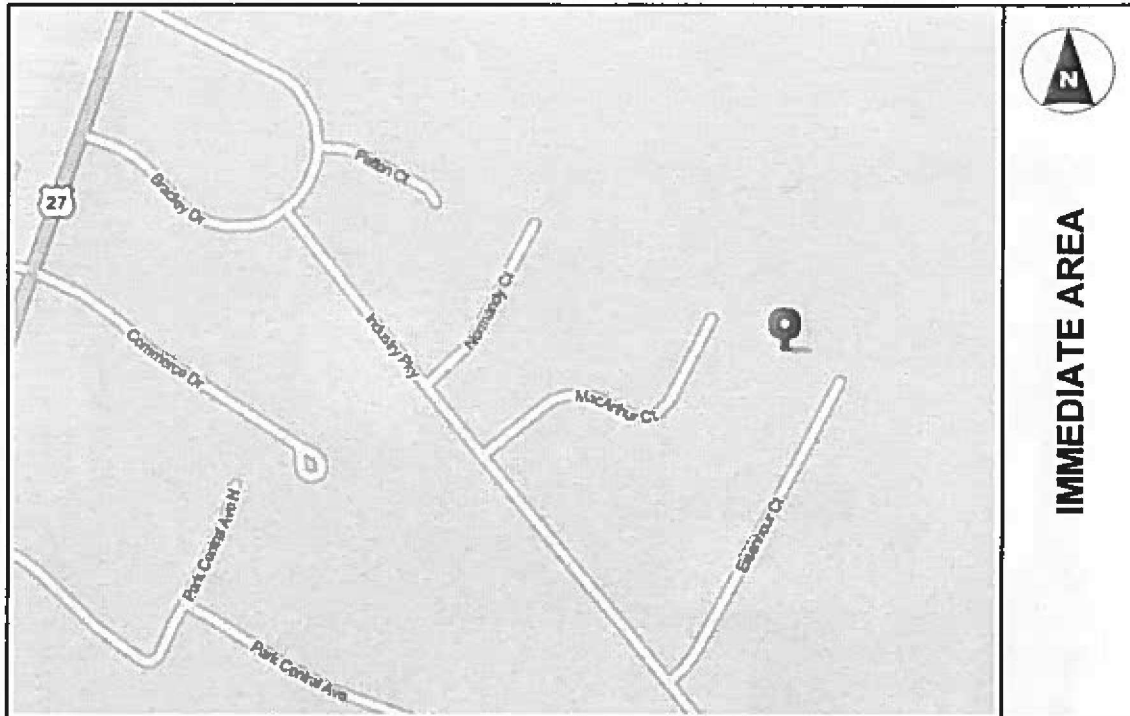
Kedrick Stanfield, Special Projects Manager  
PECCO, INC. aka PERDUE ENVIRONMENTAL CONTRACTING COMPANY, INC.

# ***APPENDIX A***

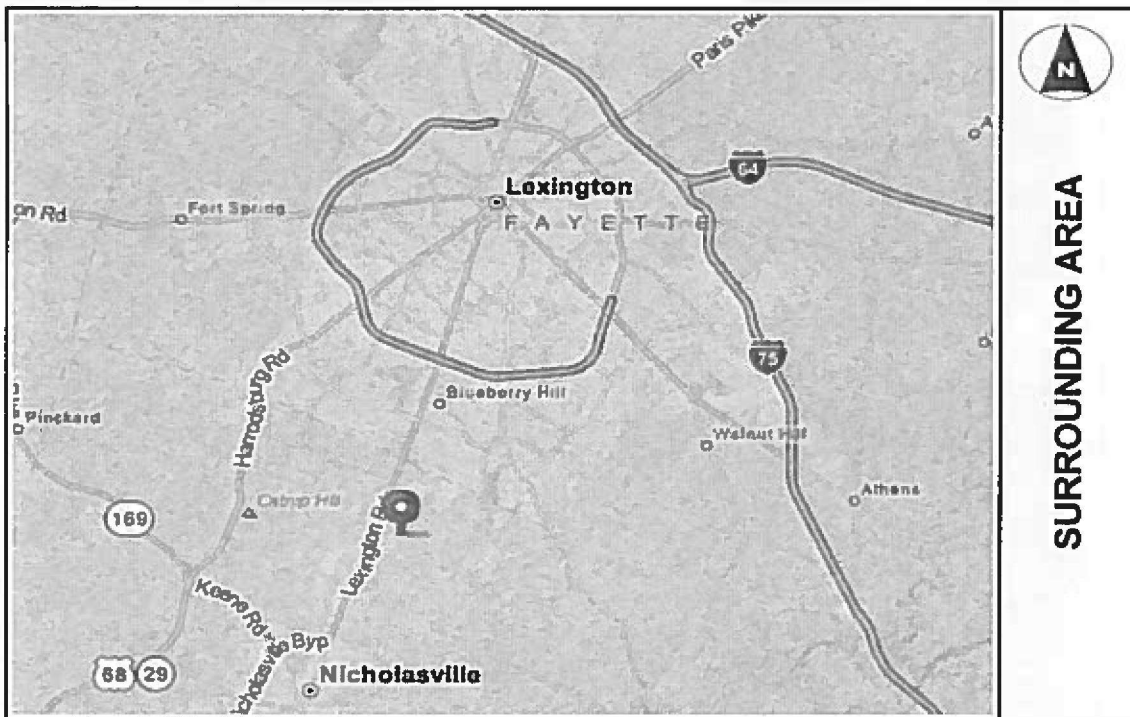
## **VICINITY MAPS, SITE DRAWINGS AND SKETCHES**



**FIGURE 1: VICINITY MAPS**



**IMMEDIATE AREA**



**SURROUNDING AREA**

**A SITE**

**PECCO, INC.**  
**PERDUE ENVIRONMENTAL**  
**CONTRACTING COMPANY**

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 145 EISENHOWER COURT  
 NICHOLASVILLE, JESSAMINE COUNTY, KENTUCKY  
 GEOGRAPHIC COORDINATES: 37° 56' 16.74" N, -84° 32' 13.79" W

**FIGURE 2: AERIAL**



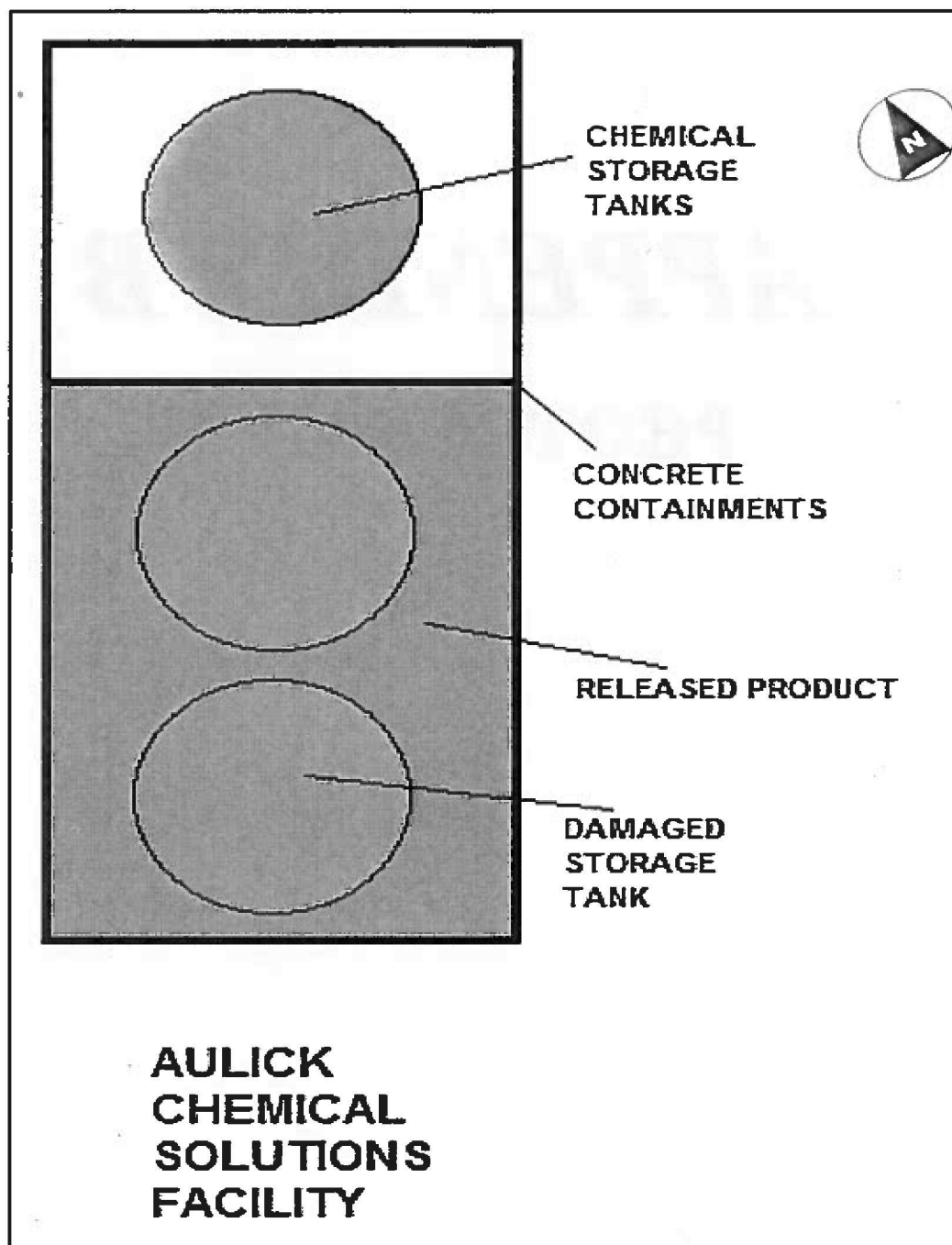
 SITE

**PECCO, INC.**  
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**CONTRACTING COMPANY**

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**FIGURE 3: SITE SKETCH**



Note: This sketch is to illustrate relational features of the site and is not proportioned or drawn to dimensional scale.

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**CONTRACTING COMPANY**

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# ***APPENDIX B***

## **PHOTOGRAPHS**



**EMERGENCY RESPONSE SERVICE OF 3-11-13  
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AULICK CHEMICAL SOLUTIONS, INC.  
145 EISENHOWER COURT  
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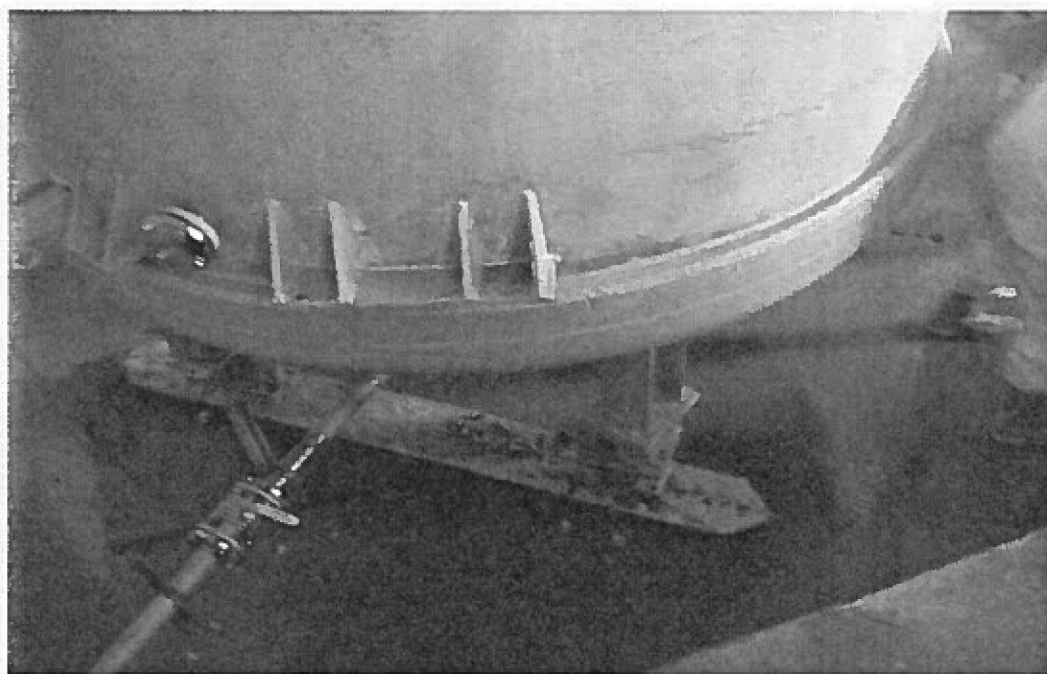


Photo 1: Reportedly, a flange failure on a nitric acid storage tank at the AULICK CHEMICAL SOLUTIONS facility allowed product to be released. Approximately 2,400 gallon of product were released into the concrete containment surrounding two of three tanks.



Photo 2: The product began reacting with the concrete of the containment producing a large cloud of yellow fumes that spread out and moved east of the facility. All of the released liquid product remained within the containment.

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Photo 3: The immediate area surrounding the facility was evacuated. First responders from the BLUEGRASS ENVIRONMENTAL RESPONSE TEAM (BERT) donned Level A PPE and made entrance to inspect the facility and assess the chemical hazards.



Photo 4: PECCO responders donned Level A PPE and began setting up equipment to mitigate the release. Using a stainless steel tanker, PECCO responders vacuumed the released product from the containment.



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Photo 5: The containment was filled with approximately 1,000 gallons of water to dilute and weaken the acid and stop the reaction with the concrete containment.



Photo 6: As PECCO responders and emergency personnel left the hot zone, they were decontaminated in a decontamination tent provided by the NICHOLASVILLE FIRE DEPARTMENT.

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Photo 7: The wastewater from the decontamination process was collected with a vac-truck and vacuumed into the onboard storage tank for subsequent transportation and disposal.



Photo 8: The Level A PPE suits used in the response were secured in screw-top, 95 gallon, poly drums for subsequent transportation and disposal.

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Photo 9: On 3-12-13, PECCO responders returned to the site. PECCO responders donned Level C PPE with full face respirators.



Photo 10: Using the stainless steel tanker, the water used to dilute the acid was removed from the containment.



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Photo 11: Using warm water and a degreaser, PECCO responders pressure washed the interior of the containment.

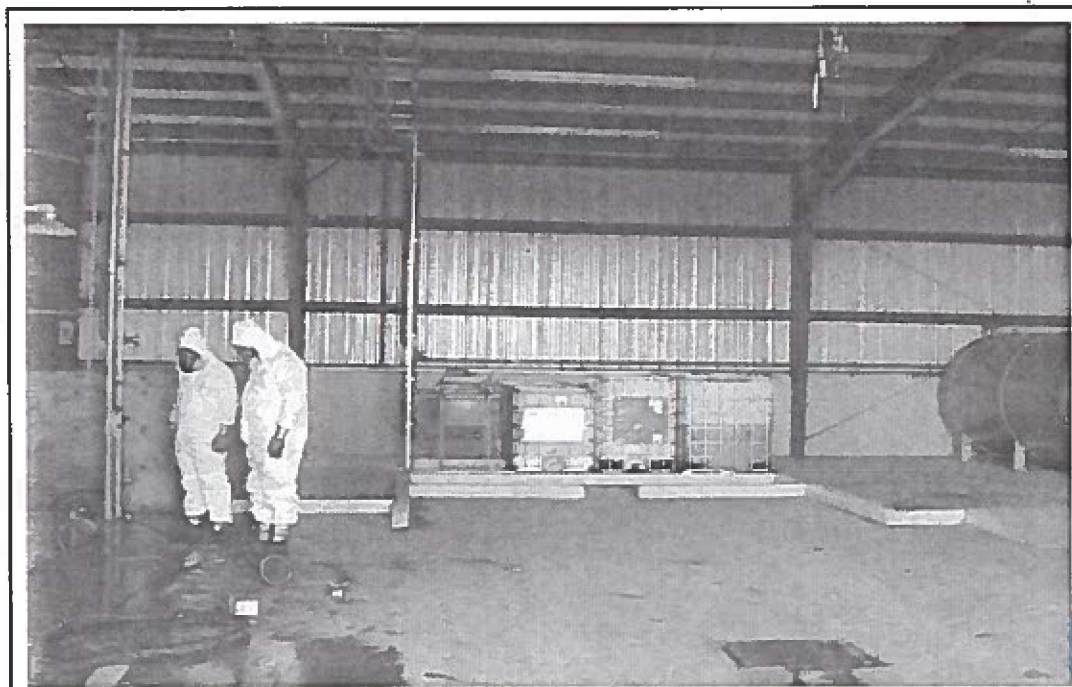


Photo 12: The wastewater was collected using the vac-tanker. PECCO responders pumped the product and wastewater from the stainless steel tanker into several 275-gallon poly totes and left them on site for disposal by AULICK CHEMICAL .

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Photo 13: PECCO responders set up the decontamination tent on a wash pad at the PECCO facility.

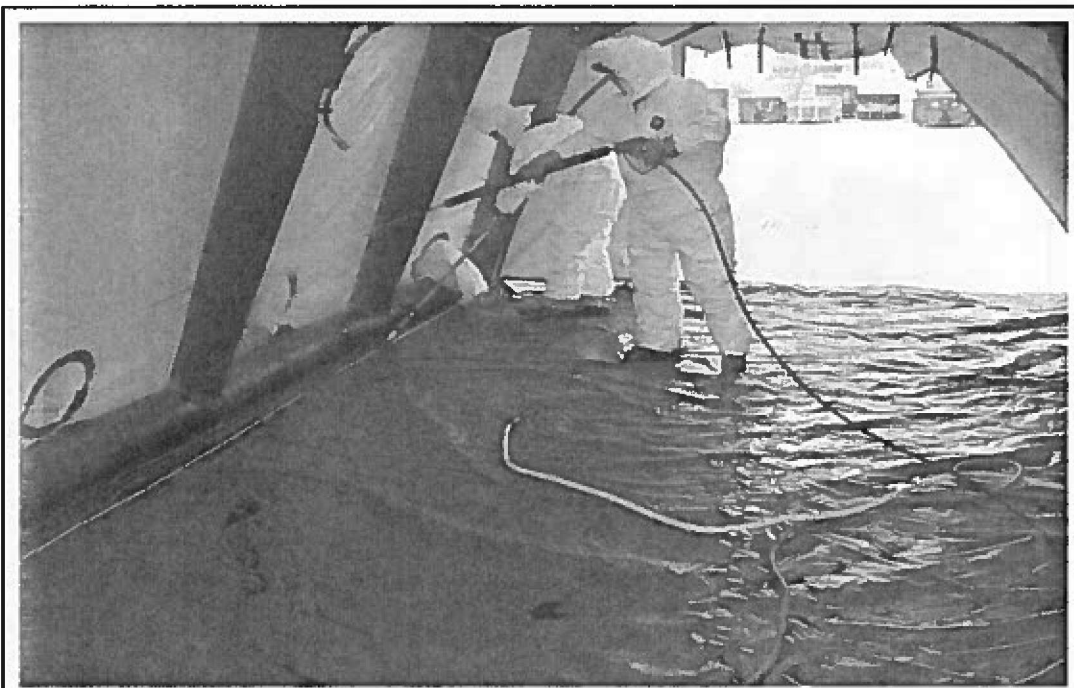


Photo 14: Using warm water and a degreaser, PECCO responders pressure washed the interior of the decontamination tent.



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Photo 15: Using soft bristled brushes, the interior of the decontamination tent was scrubbed.



Photo 16: Using a vac-truck, PECCO responders collected the wastewater in the onboard storage tank of the vac-truck. The tent was returned to the NICHOLASVILLE FIRE DEPARTMENT.



***APPENDIX C***  
**DOCUMENTATION OF  
DISPOSAL**

# FIGURE 1: SOLID WASTE MANIFEST

2010

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number		2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number	
5. Generator's Name and Mailing Address <b>Autick Chemical</b> <b>145 Eischour Ct</b> <b>Nicholasville, KY 40356</b>				Generator's Site Address (if different than mailing address)			
Generator's Phone:				U.S. EPA ID Number <b>KY0009107653</b>			
6. Transporter 1 Company Name <b>PECCO INC.</b>				U.S. EPA ID Number			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address <b>Blue Ridge Landfill</b> <b>2700 Winchester Rd.</b> <b>Elaine, KY</b>				U.S. EPA ID Number			
Facility's Phone:							
GENERATOR	9. Waste Shipping Name and Description			10. Containers		11. Total Quantity	12. Unit Vol./Vol.
				No.	Type		
	1. <del>HAZ</del> Decontaminated Level A PPE Suits			001	CM	25	CY
	2.						
	3.						
4.							
13. Special Handling Instructions and Additional Information  <b>Y400 2037</b>							
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.							
Generator's Signature <b>Adam Alexander</b>				Signature <b>Adam Alexander</b>		Month <b>02</b>	Day <b>20</b>
						Year <b>13</b>	
TRANSPORTER	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:						
	16. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name <b>John Coen</b>				Signature <b>John Coen</b>		Month <b>3</b>
	Transporter 2 Printed/Typed Name				Signature		Day <b>21</b>
						Year <b>13</b>	
DESIGNATED FACILITY	17. Discrepancy						
	17a. Discrepancy Indication Space: <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	17b. Alternate Facility (for Generator)						
	Facility's Phone:						
17c. Signature of Alternate Facility (or Generator)							
Month <b>13</b>							Day <b>21</b>
							Year <b>13</b>
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a							
Printed/Typed Name <b>Delma Abney</b>				Signature <b>Delma Abney</b>		Month <b>13</b>	Day <b>21</b>
						Year <b>13</b>	

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DESIGNATED FACILITY TO GENERATOR

## FIGURE 2: SOLID WASTE SCALE TICKET

BLUE RIDGE LANDFILL, INC  
2700 WINCHESTER RD  
IRVINE, KY 40336  
6067235552

008140  
PECCO INC  
250 ETTER DRIVE  
NICHOLASVILLE, KY 41385

INVOICE  
INBOUND

SITE	CELL	TICKET #	OPERATOR
39		224073	46156
TRUCK		CONTAINER	LICENSE
6855 298			
REFERENCE			IN      OUT
AULICK MATERIAL			3/21/13 12:58 pm      3/21/13 1:48 pm

CONTRACT: Y4002037 AULICK CHEMICAL  
BOL:

GROSS 44,220.00 LBS Scale In  
TARE 13,860.00 LBS Scale Out  
NET 360.00 LBS

QTY	UNIT	DESCRIPTION	ORIGIN	%	RATE	TAX	TOTAL
0.18	TN	SW-CLOTHING - EXT	21	100.00			
1.00		FUEL & ENVIRONMENTAL FEES		0.00			

HB174

I hereby certify that this load does not contain any unauthorized hazardous waste.

SIGNATURE: \_\_\_\_\_

*[Handwritten Signature]*

Tax Total  
\$0.32

Total  
Paid  
Change  
Check #  
Receipt #

FACILITY COPY

# FIGURE 3: LIQUID WASTE MANIFEST

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number	
5. Generator's Name and Mailing Address <i>Avulick Chemical Co. Patterson Co. Nicholasville OH 43056</i>		Generator's Site Address (if different than mailing address)				
Generator's Phone		U.S. EPA ID Number				
6. Transporter 1 Company Name <i>RECO Inc</i>		<i>PA0000967653</i>				
7. Transporter 2 Company Name		U.S. EPA ID Number				
8. Designated Facility Name and Site Address <i>Valcor 11807 Reading Rd. Cincinnati, OH</i>		U.S. EPA ID Number				
Facility's Phone						
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt/Vol
			No.	Type		
	1. <i>Deion water</i>		<i>001</i>	<i>TT</i>	<i>570</i>	<i>G</i>
	2.					
	3.					
4.						
13. Special Handling Instructions and Additional Information						
14. GENERATOR/SOFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled, stored, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's Officer's Printed/Typed Name <i>William G. Jones</i>		Signature <i>William G. Jones</i>		Month Day Year <i>3/13/13</i>		
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
16. Transporter Acknowledgment of Receipt of Materials						
TRANSPORTER	Transporter 1 Printed/Typed Name <i>James D. Wilkins</i>		Signature <i>James D. Wilkins</i>		Month Day Year <i>3/13/13</i>	
	Transporter 2 Printed/Typed Name <i>Glenn Eversman</i>		Signature <i>Glenn Eversman</i>		Month Day Year <i>8/5/13</i>	
DESIGNATED FACILITY	17. Discrepancy					
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
	Manifest Reference Number					
	U.S. EPA ID Number					
	17b. Alternate Facility (or Generator)					
Facility's Phone						
17c. Signature of Alternate Facility (or Generator)						
Month Day Year						
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a						
Printed/Typed Name <i>J. Swan</i>		Signature <i>J. Swan</i>		Month Day Year <i>14/5/13</i>		

169-BLS-C 6 10497 (Rev. 9/09)

TRANSPORTER #1



# FIGURE 4: HAZARDOUS LIQUID WASTE MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter)

Form Approved, GMS No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number KYR 000 057 760	2. Page 1 of 1	3. Emergency Response Phone 857-492-1630	4. Manifest Tracking Number 010282473 JJK
5. Generator's Name and Mailing Address: <b>AULICK CHEMICAL SOLUTIONS, INC.</b> 145 EISENHOWER COURT NICHOLASVILLE, KY 40358 Generator's Phone: (859) 881-5422					
6. Generator's Site Address (if different than mailing address): 145 EISENHOWER COURT NICHOLASVILLE, KY 40358					
8. Transporter 1 Company Name <b>PECCO</b> 859-887-5508				U.S. EPA ID Number KY0 000 967653	
7. Transporter 2 Company Name				U.S. EPA ID Number	
8. Designated Facility Name and Site Address <b>EQ DETROIT, INC.</b> 1923 FREDERICK DETROIT, MI 48211 Facility's Phone: (313) 347-1300				U.S. EPA ID Number MID 880 991 568	
GENERATOR	9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity
			No. Type		12. Unit Wt./Vol.
	1. UNCLAS. Waste Oxidizing liquid, corrosive, n.o.s. (Calcium Nitrate, Nitric Acid), 5.1 (B), PGII; ERG #140		005 DF		1375 G
	2. UNCLAS. Waste Oxidizing liquid, corrosive, n.o.s. (Calcium Nitrate, Nitric Acid), 5.1 (B), PGII; ERG #140		008 DF		2200 G
	3.				
13. Waste Codes 0001 0002					
14. Special Handling Instructions and Additional Information 01. UN3000DET / Residue of Nitric Acid/Calcium Nitrate / ERG #140 02. D13804DET / Calcium Nitrate/Nitric Acid Blend / ERG #140 -- ER CONTACT NAME: <u>Adam Alexander</u>					
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.22(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's Offeror's Printed/Typed Name: <u>Jack McIntosh</u> Signature: <u>[Signature]</u> Month: <u>5</u> Day: <u>22</u> Year: <u>13</u>					
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input checked="" type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____				
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: <u>Bill Becker</u> Signature: <u>[Signature]</u> Month: <u>04</u> Day: <u>22</u> Year: <u>13</u> Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____				
DESIGNATED FACILITY	18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ U.S. EPA ID Number: _____				
	18b. Alternate Facility (or Generator) Facility's Phone: _____ U.S. EPA ID Number: _____				
	18c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____ Year: _____				
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. <u>H070</u> 2. <u>H070</u> 3. _____ 4. _____				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a Printed/Typed Name: <u>JOYCE WILSON</u> Signature: <u>[Signature]</u> Month: <u>11</u> Day: <u>22</u> Year: <u>13</u>					

EPA Form 6700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY

***APPENDIX D***  
**MATERIAL SAFETY DATA  
SHEETS**



## FIGURE 1: MATERIAL SAFETY DATA SHEET

**Aulick Chemical Solutions, Inc.**  
111 Patton Court, Nicholasville, KY, 40358  
phone number: 859.881.5422

### Material Safety Data Sheet

#### *Calcium Nitrate/Nitric Acid Blend*

For Disposal

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Revision Date: 3/12/2013

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#### 1. Product Identification

Chemical Family: Inorganic Liquid  
Chemical Name: Proprietary

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#### 2. Composition / Ingredient Information

<u>Component</u>	<u>CAS Number</u>	<u>% By Weight</u>
Calcium Nitrate	10124-37-5	>25 %
Nitric Acid	7697-37-2	>10%

---

#### 3. Hazard Identification

Emergency Overview: Acid Product (pH: 1.5)

Potential Health Effects:

Eye: Corrosive to eye tissue and can be destroyed.

Skin: Will burn skin.

Inhalation: No additional information.

Ingestion: No additional information.

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#### 4. First Aid Measures

Eye Contact: Flush immediately with large amounts of water for at least 15 minutes.

Seek medical contact in case of eye contact.

Minor Skin Contact: Immediately flush skin with water while removing contaminated clothing. Seek medical attention if irritation persists.

Minor Inhalation: Allow the affected individual to rest in well ventilated area. Seek medical attention.

Ingestion: If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

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#### 5. Fire and Explosion Hazard

Flashpoint: Unknown  
Auto Ignition: Unknown

Extinguishing Media: N/A  
Protective equipment for fire fighting: N/A

Other information: N/A

HMIS Rating:

Health: 3

Fire: 0

Reactivity: 1

Special: -

---

#### 6. Spill Control Procedure

Personal precautions: Unknown

Environmental precautions: Unknown

Spill Recovery: Dispose of product according to local, state, and federal regulations.

---

#### 7. Handling and Storage

Handling: Corrosive Product

Storage: Store in sealed container.

---

#### 8. Personal Protection

For open systems, wear faceshield, safety suit and gloves.

Handle in accordance with good industrial hygiene and safety practice.

---

#### 9. Physical and Chemical Properties

Product Appearance: black colored material

Odor: acid odor

pH: 1.5

Boiling Point: Unknown

Vapor Pressure, mmHg at ° F: Unknown

Viscosity of Liquid, CST at ° F: Unknown

Specific Gravity: 10.2-11.5 lbs. per gallon @ 77 ° F

Freezing/ Melting Point, ° F: Unknown

Evaporation Rate, n- Butyl Acetate = 1: Unknown

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**10. Stability and Reactivity information:**

Stability: Stable

Conditions to avoid instability: Basic Environment

Materials and Conditions to avoid incompatibility: Petroleum Products and Strong Bases

Hazardous Decomposition: Unknown

Hazardous Polymerization: Unknown

Conditions to avoid Hazardous Polymerization: Unknown

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**11. Transportation**

U.S. DOT Classification: Corrosive

HMIS Rating:

Health: 3

Fire: 0

Reactivity: 1

Special: -

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**NOTE:**

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